

Personal GPS Tracker TL-403 User Manual





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Welcome

Introduction

TL-403 is waterproof IP67 GPS personal tracker developed by Toplovo. With two-way communication, SOS alarm function, fall down alarm function, auto tracking and listen-in function, it is suitable for children, elder people, lone workers, patients and vehicles. You can implement real-time tracking anywhere via the mobile phone APP or tracking platform. It helps to protect the person who you care about.

What is in the Box

- 1. TL-403 Device
- 2. Magnetic Contact Cable
- 3. Lanyard
- 4. Docking Station
- 5. Belt Clip
- 6. Screw Driver & Screws
- 7.User Manual

Optional Accessories: Belt Clip / Docking Station

Getting to Know TL-403

Hardware Description



- 1. SOS Button
- 2. Power Button
- 3. Indicator
- 4. Microphone
- 5. Charging Contact Point
- 6. Belt Clip
- 7. Docking Station Charging Contact Point

- 8. Speaker
- 9. Antenna Cover

Specification

Specification		
Content	Specs	
2G	Europe: 900/1800MHz	
3G HSPA Bands	America: B2/B5 Europe: B1/B8 Australia: B1/ B5	
4G LTE CAT-1 Bands	Europe: B1/B3/B7/B8/B20 America: B2/B4/B12 Australia: B1/B3/B5/B7/B28	
Dimensions	64.0 * 39.0 * 19.0 mm	
Weight	55g	
Waterproof Level	IP67	
Color	Black/White	
GPS Sensitivity	Tracking: -165dBm Re-acquisition: -160dBm Acquisition: -148dBm	
GPS Accuracy	≤10m	
GPS Start time	Cold start: 32s Warm start: 30s Hot start: 1s	
Battery Capacity	1100mAH	
SIM Card Type	Nano SIM	
Firmware Upgrade Mode	OTA/USB	
Maximum Standby Time	7 Days	
The Longest Working Time (5Min upload data once)	72 Hours	
Docking Station Charge Current	500mA (Max)	
Charging Time	2-3 Hours	



Operating Temperature	-20°C to +65°C
Working Humidity	5% 95%

About Charging

Three Ways of Charging:

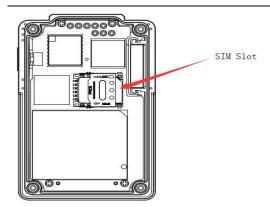
- 1. Docking Station with Magnetic Contact Cable Charging,
- 2. Single Magnetic Contact Cable Charging
- 3. Docking Station with USB Cable Charging.



How to Use Your Device Put the SIM Card

Open the device by screwdriver, put SIM card into the card port. Please tighten the device to make sure the waterproof function.

Notice: To avoid damaging the battery, please make sure the SIM card cover is closed before screwing back the device.



Switching the Device On and Off

- 1. Long press the power button more than 2 seconds until the tracker vibrates, the yellow indicator flashes singly, the tracker is switched on.
- 2. Long press the power button more than 3 seconds until the tracker vibrates and the two indicators flash at the same time, the tracker is switched off.



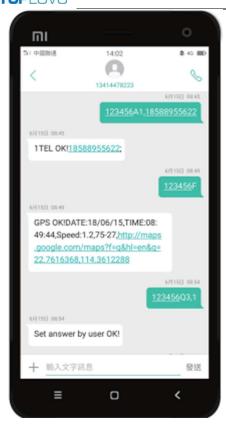
Notice: It is better to get the signal outdoor or near the window.

Set the Authorized Phone Numbers

You can set 8 authorized phone numbers at most.

Put the SIM card and switch on device, then send command **123456A1**, authorized phone number via SMS, the device reply: 1 TEL OK! authorized phone number.

Example: 123456A1, 18588955622, details are as the following picture:



Notice: A1 means the first authorized phone number, A2 means the second one and A3 means the third one until A8.

All the letters of commands must be capital.

Make the SOS Emergency Call

Long press SOS button until the device vibrates. SOS alert will be triggered. It will send SOS message to the first authorized phone number and make a 2 way call to A1-A8 authorized phone numbers.

Notice: If A1 misses the calling, the device will call to the next one until someone answers.



Set the Call Volume

Send command 123456Vxx via SMS to set the call volume.

Xx is the volume, and it should be less than 10. When the volume is successfully set, the device will reply "SET Volume OK!" via SMS

Make a Phone Call by the Device



- 1. Continuously press SOS button (Call Button) for 4 times, the device will dial the fourth authorized number.
- 2. Continuously press SOS button (Call Button) for 5 times, the device will dial the fifth authorized number.

Notice:

- 1. Press the SOS button (Call Button) for only one time when dialing, you can hang it up.
- 2. When making the phone call, the device can only dial 2 phone numbers, the fourth and the fifth authorized numbers.

Receive the Phone Call

The default setting is to answer the phone automatically after the device rings 3 times. If you want to change it, send command **123456Q3,1** via SMS, then you can pick up or hang up the call by pressing the SOS button.

Set the Listen-in Function

Send command 123456U1 via SMS, the device answers automatically and enters the listening in mode when you make a call to the device.



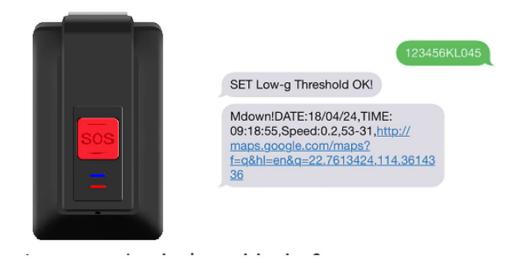
Notice: The default setting is two-way audio (123456U0). Command of U1 and U0 cannot be used at the same time, you can send command 123456U1/123455U0 to switch it.

Use the Fall Down Alert

Send command **123456KLXXX** to set threshold, XXX is 3 digital number from $000 \le xxx < 255$. 000 means close the drop alarm function. Suggestion: xxx it would be from 045 to 050.

For example, Send command **123456KL045** via SMS, when fall down alert is triggered, the device will send message to the first authorized phone number and give call to A1-A8.

Notice: If A1 misses the calling, the device will give call to the next one until someone answers.



Get the Single Positioning

Send command 123456F via SMS. The device will search the GPS single to get the latest location. If it fails, the device will reply invalid information.

123456F

GPS OK!DATE:18/05/25,TIME:
10:02:38,Speed:0.9,42-27,http://
maps.google.com/maps?
f=q&hl=en&q=22.7614224,114.36140
80

Set the Low Battery Alarm

Send command 123456N1,yy via SMS.

"yy" means the low battery volume. Such as **123456N1,30**, it means when the battery is below 30%, the device will send message to the first authorized phone number.

Two ways of wearing

The device has two types of wearing accessories; it can both be hanged up by the belt clip and by the Lanyard.

Support GPS & WIFI Dual Positioning Functions

When the GPS signal is weak, the device can switch to the WIFI assist positioning mode, searching 3 open WIFI (with visible WIFI name) with the fullest signal nearest the device, sending 3 MAC addresses to the platform and APP to support positioning and make it more accurate, it's especially very useful when using the tracking device indoor.

How to Use the Tracking Platform

Connect the Tracking Platform

1. Set APN, IP and port

Please confirm the SIM Card GPRS function is activated.

IP connection: Send command **123456CAPN,IP:Port** via SMS.(APN is from your SIM card in the device and IP port is 112.124.14.58:9289) Example: **123456CCMNET**, **112.124.14.58:9289** (CMNET is APN.)

2. Send command **123456D** to turn on GPRS.

About the Account

- 1. Send command **123456B** to get the IMEI number, then share the IMEI number with your contact.
- 2. Ask for an account and password from your contact.

After the above two steps done, you can login the tracking platform or APP start to use it.

Co

GPS OKIDATE:18/05/25,TIME:
10:02:38,Speed:0.9,42-27,http://
maps.google.com/maps?
f=q&hl=en&q=22,7614224,114,36140
80

Login the GPS Tracking Platform

PC platform website: www.glotracking.com/m/

How to Download APP

iOS version: Search GloTopTrack in App Store.

Android version: Search **TopTrack** in Google Play

Notice: Under Development.

Notice: If tracker is connected the platform, all of the messages (such as the SOS emergency alert, fall down alert and the single positioning) will be sent to the platform and authorized phone numbers as well.

More Functions of the Device

Command list is attached as below and if you need help please contact the sales.

Reset the Device

Send command **RESET!** via SMS, the device will reset to the factory settings.

Notice: The device will restart after sending the message without further response.

Command List

Function	Command	Example
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Set Authorized Phone Number Delete Authorized Phone Number Ask for IMEI and	123456Ax,pho ne number,name 123456Ax,D	123456A1,+86158000000,wang or 123456A1,+86158000000 x stands for the No. of the authorized phone number(1-8). 123456A1,D x means the No. of the authorized phone number(1-8)
Hardware and Software Version	123456B	
Set APN, IP and Port	123456CAPN, IP:Port	123456C3gnet,119.122.101.91:9289 The user can obtain APN from local Operator, and if he or she wants to delete all, just needs to set 123456C;
Turn on GPRS	123456D	
Turn off GPRS	123456E	
Single Positioning	123456F	
Search User Setting	123456G	
Modify SMS Password	123456Hxxxx xx	123456Н999999
Set GEO Fence Alarm	123456Ix,y,z, aabbccddefffg ghhiijkkllmmn nepppqqrrssj Lat aa "bb'cc.dd" Long. fff 'gg'ff.ii" Top left corner Bottom right corner Lat. kk Long. f	j=E stands for East; j=W stands for West.
Set Low Speed Alarm	123456Jx,yyy	123456J1,080 x=0 means turning off; x=1 means turning on.



TOPLUVU	I	
		yyy stands for the low speed threshold(000-255)
Turn off Device	123456K	(
		123456KL045
Set BMA Fall- down Alarm		xxx stands for the fall-down
	123456KLxxx	threshold(sensitivity)
Threshold	123 130KEAAA	000\le XXX\le 255, 000 means turning
		off the fall-down alarm function.
		123456KH045
		xxx stands for the collision
Set Collision	123456KHxxx	threshold(sensitivity)
Alarm Threshold	123 13 0111111111	000\le XXX\le 255, 000 means turning
		off the collision alarm function.
Set Local Time Zone	123456Lxyy:z	123456L+08:00
		123456M1,005M
		x=0 means turning on;
Set Time Range	12245614	XX=1 means turning off.
of Continuous	123456Mx,yy	yyy means the set time(001-255)
Positioning	yz	z=S means the second;
		z=M means the minute;
		z=H means the hour;
Set GPRS Heart	123456M2,xx	123456M2,180
Beating Time	X	xxx stands for the second(060-600)
		123456N1,30
C / I D //		x=0 means turning off;
Set Low Battery	123456Nx,yy	x=1 means turning on.
Alarm	75.5	yy means low battery threshold(less
		than 45, more than the lowest
		threshold) 123456N2,1
Set Fully-charged	123456N2,x	x=0 means turning on;
Alarm	123730112,3	x=1 means turning off.
Set GPRS User Name and 1234560&&	123456Ointernet,internet123	
		&&& stands for the user name
Password	& ,@@@	@@@ stands for the password
Cat Massaura		123456P1,050
Set Movement	123456Px,yyy	x=0 means turning off,
Alarm		x=1 means turning on



IOPLOVO	_	
		yyy means deviation from the current coordinate distance (less than 250, unit:10m) When the tracker's movement distance is over the set range, the device will send out the alarming message.
Set the Selection of Making SOS/BMA Call or Not	123456Q1,x	x=0 means no phone call; x=1 means making phone call
Set the Selection of Identification of the Calling-in Number the Authorized Number or not	123456Q2,x	123456Q2,1 x=0 means it needs the authorization; x=1 means any call can be received without the authorization
Set the Selection of Phone Call's Receiving or Hanging-up automatically in Two-way Audio Mode	123456Q3,x	123456Q3,1 x=0 means receiving the phone call automatically by device; x=1 means receiving or hanging up the phone call by user.
Set the Selection of Turning on or Tuning off the Identification Function of Voicemail	123456Q4,x	123456Q4,1 x=1 means turning on the voicemail identification. x=0 means turning off the voicemail identification.
Set the Selection of Matching the Password or not in SMS	123456Q5,x	123456Q5,1 x=1 means it needs to matching the SMS password x=0 means it doesn't need to matching the SMS password
Set GPRS Domain Name and Port	123456Rhttp://Domain;Port	123456Rhttp://liaohong.vicp.net;600 0 Domain means Domain Name Port means Port No.
Delete GPRS Domain Name and Port	123456R;	





TOPLUVU		,
Set Calling-in		
Two-way Audio	123456U0	
Mode		
Set Calling-in		
One-way	123456U1	
Monitoring Mode		
Set SOS/BMA		
One-way Silence	123456U2	
Mode		
Set SOS/BMA		
Two-way Audio	123456U3	
Mode		
Set Permission to		
Turing on GPS	123456U4	
Power Source		
Set Forbiddance		
to Turing on GPS	123456U5	
Power Source		
Set GPRS Traffic	100456116	
Saving Mode	123456U6	
Set GPRS a		
Fixed Time to	123456U7	
Upload Data		
Set GPS a		
Powerful Mode	100.45.6730	
without Cutting	123456U8	
off Power Source		
Set GPS a Power	100.45.6770	
Saving Mode	123456U9	
		123456V30,123456
Set the Mode		x=0 means call out in two-way audio
Selection of	123456V3x,nu	mode;
Calling-out	mber	x=1 means call out in one-way
Culling out		monitoring mode;
		123456UV
	123456UVxxx	xxxx means the upgraded version,
OTA Upgrade	X	without suffix, it means upgrading to
	A	the newest version.
		123456UV10
Set Voice Call	123456Vxx	xx is the voice volume and is less
Volume	143430 V XX	than 10.
Sat Davias Name	12245672 ****	
Set Device Name	123456Z2,xxx	123456Z2,John



Reset to the	RESET!	This Command can only be set via
Original Version		SMS or GPRS
Device Reset	RESET!1	This Command can only be set via
		SMS or GPRS

Cautions

- 1. Keep the unit inside part dry when opening the back cover to put in the SIM card. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.
- 2. Don't put the unit in overheated or overcooled places.
- 3. Handle carefully. Don't vibrate or shake it violently.
- 4. When the unit is touched with water, clean it with a piece of dry cloth. Don't clean in chemicals, detergent.
- 5. Don't paint the unit, this may cause some foreign materials left in between the parts.
- 6. Please don't disassemble or refit the unit. The system should be installed by technical personnel.
- 7. Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
- 8. This product should be used in the normal condition of GPS signal and GSM signal. If not, it will result in the inability to locate (GPS) or locate data that cannot be transmitted (GSM).
- 9. The product has position tracking and listen-in functions, the user must use it within the legal limit. If the user illegally use it (such as Invasion of privacy) that lead to damage of others' rights and interests, the consequences are the user's responsibility.
- 10. This product is obtained by satellite to get the position information. Position data drift is normal, because it is limited by satellite positioning transmission characteristics.

Warranty

One Year.